IRI 4010

MULTI-PURPOSE THERMAL IMAGER

The IRI 4010 is an innovative thermal imager product, which offers outstanding imaging and temperature measurement performance together with the traditional IRISYS features of flexibility, ease of use, and minimal cost of ownership.

IRISYS has produced an imager that is ideal for the thermographer and maintenance engineer alike; high quality images may be captured and manipulated offline or problems can be resolved on the spot. The camera comes with an industry leading 3 1/2" display and delivers price and performance that are unique to IRISYS.

Typical applications for the IRI 4010 include:

- Predictive and Preventative Maintenance
- Electrical and mechanical
- Process Monitoring
- HVAC & R Troubleshooting and Maintenance
- General Industrial/Domestic Inspection
- Security

The IRI 4010 Multi-Purpose Thermal Imager Product Description

The ergonomically designed imager houses the complete uncooled microbolometer-based camera core together with a long life Li-ion battery pack. For ease of use the image is displayed on a large 31/2" colour LCD with LED backlight. Images can be captured using an MMC or SD card for recall and further analysis if required. Images can also be downloaded to a PC from the memory card for analysis, report generation and printing.

Operation

Designed for self-contained use, the camera is the ideal tool for the maintenance engineer in the 21st Century. The high power, field replaceable, rechargeable Li-ion battery allows continuous operation for a working shift. The IRI 4010 is fully radiometric; temperature measurements can be made over the entire image, and hot spots can be identified by use of a trigger activated laser pointer.

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ISO 9001
REGISTERED FIRM

IRI 4010

irisys
Red Hot Intelligence

SPECIFICATION

PERFORMANCE

Field of view (FOV):	20o x 15o
Focus:	Manual
Minimum Focus:	30cm
Spectral Response:	8µm to 14µm
Thermal Sensitivity:	150mK (0.15?C) @ 21oC ambient and 25oC scene temperature
Detector:	160x120 pixels uncooled microbolometer

IMAGE STORAGE

Number:	Up to 1000 images on SD card supplied
Medium:	MMC/SD card

DISPLAY

31/2" colour LCD with LED backlight 4 colour palettes

LASER POINTER

A built in Class 2 laser is supplied to highlight the central measurement area

MEASUREMENT

Temperature range:	-10oC to +250oC
Radiometry:	Two movable temperature measurement cursors Temperature difference measurement
Emissivity Correction:	User selectable 0.2 to 1.0 in steps of 0.01 with reflected ambient temperature compensation
Accuracy:	The greater of ±2oC or ±2%

IMAGER POWER SUPPLY

Battery:	Lithium-ion field rechargeable, replaceable batteries
Operation time:	4 hours continuous operation
AC operation:	AC adaptor supplied

MECHANICAL

Housing: Impact Resistant Plastic

Dimensions:	230mm x 120mm x 110mm
Weight:	0.75kg including battery
Mounting:	Handheld & Tripod mounting

IRI 4010 INCLUDES

IR Camera, Battery, AC adaptor, USB Cable, CD with user manual and software (PC analysis and EasyReport writer), carrying case, wrist strap, SD card and SD card reader.

OPTIONAL ACCESSORIES

Report writing software; desktop charger; 12V car charger; additional battery; light shade.

INTERFACES

USB type B

SETTINGS AND CONTROLS

- On/Off soft power control
- User selectable span control
- User selectable level control
- Auto adjust span and level
- Display palettes: rainbow, ironbow, high contrast and greyscale
- Laser trigger switch
- Readout in oC , oF or K
- Image capture, time and date
- 2 x digital zoom

FEATURES

- Real time image and temperature measurement display
- Crisp high resolution images
- Large 3 1/2 inch display
- Simple operation
- Multiple temperature measurement
- Multiple image storage and retrieval at full digital resolution
- Image browser with full image adjustment
- Battery Charge indicator
- Lightweight

AMBIENT ENVIRONMENT

Temp. operating range: -15oC to +45oC
Humidity: 10% to 90% non condensing
Temp. storage range: -20oC to +70oC CE Mark (Europe)

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